

## CLAIMS:

1. An isolated nucleic acid molecule comprising a nucleotide sequence encoding ELF5 wherein said ELF5 comprises an Ets domain.
2. An isolated nucleic acid molecule or derivative, homologue or analogue thereof comprising a nucleotide sequence encoding, or a nucleotide sequence complementary to a nucleotide sequence encoding, an amino acid sequence substantially as set forth in <400>2 or a derivative homologue or mimetic thereof or having at least about 45% or greater similarity to at least 10 contiguous amino acids in <400>2.
3. An isolated nucleic acid molecule or derivative, homologue or analogue thereof comprising a nucleotide sequence substantially as set forth in <400>1 or a derivative or homologue thereof capable of hybridising to <400>1 under low stringency conditions.
4. An isolated nucleic acid molecule according to claim 3 which further encodes an amino acid sequence substantially as set forth in <400>2 or a sequence having at least about 45% similarity to at least 10 contiguous amino acids in <400>2.
5. An isolated nucleic acid molecule according to claim 2 or 3 substantially as set forth in <400>1.
6. An isolated nucleic acid molecule or derivative, homologue or analogue thereof comprising a nucleotide sequence encoding, or a nucleotide sequence complementary to a nucleotide sequence encoding, an amino acid sequence substantially as set forth in <400>4 or a derivative, homologue or mimetic thereof or having at least about 45% or greater similarity to at least 10 contiguous amino acids in <400>4.
7. An isolated nucleic acid molecule or derivative, homologue or analogue thereof comprising a nucleotide sequence substantially as set forth in <400>3 or a derivative or homologue thereof capable of hybridising to <400>3 under low stringency conditions.

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8. An isolated nucleic acid molecule according to claim 7 which further encodes an amino acid sequence substantially as set forth in <400>4 or a sequence having at least about 45% similarity to at least 10 contiguous amino acids in <400>4.
9. An isolated nucleic acid molecule according to claim 6 or 7 substantially as set forth in <400>3.
10. An isolated nucleic acid molecule or derivative, homologue or analogue thereof comprising a nucleotide sequence encoding, or a nucleotide sequence complementary to a nucleotide sequence encoding, an amino acid sequence substantially as set forth in <400>7 or a derivative, homologue or mimetic thereof or having at least about 45% or greater similarity to at least 10 contiguous amino acids in <400>7.
11. An isolated nucleic acid molecule or derivative, homologue or analogue thereof comprising a nucleotide sequence substantially as set forth in one of <400>5 or <400>6 or a derivative or homologue thereof capable of hybridising to one of <400>5 or <400>6 under low stringency conditions.
12. An isolated nucleic acid molecule according to claim 11 which further encodes an amino acid sequence corresponding to an amino acid sequence set forth in <400>7 or a sequence having at least about 45% similarity to at least 10 contiguous amino acids in <400>7.
13. An isolated nucleic acid molecule according to claim 10 or 11 substantially as set forth in <400>5 or <400>6.
14. An isolated protein or derivative, homologue, analogue, chemical equivalent or mimetic thereof wherein said protein is ELF5 which ELF5 comprises an Ets domain.

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15. An isolated protein comprising an amino acid sequence substantially as set forth in <400>2 or a derivative, homologue or mimetic thereof or a sequence having at least about 45% similarity to at least 10 contiguous amino acids in <400>2 or a derivative, homologue, analogue, chemical equivalent or mimetic or said protein.
16. An isolated protein according to claim 15 encoded by a nucleotide sequence substantially as set forth in <400>1 or a derivative, homologue or analogue thereof or capable of hybridising to <400>1 under low stringency conditions or a derivative, homologue, analogue, chemical equivalent or mimetic of said protein.
17. An isolated protein according to claim 15 or 16 substantially as set forth in <400>2.
18. An isolated protein having an amino acid sequence substantially as set forth in <400>4 or a derivative, homologue or mimetic thereof or a sequence having at least about 45% similarity to at least 10 contiguous amino acids in <400>4 or a derivative, homologue, analogue, chemical equivalent or mimetic of said protein.
19. An isolated protein according to claim 18 encoded by a nucleotide sequence substantially as set forth in <400>3 or a derivative, homologue or mimetic thereof or capable of hybridising to <400>3 under low stringency conditions or a derivative, homologue, analogue, chemical equivalent or mimetic of said protein.
20. An isolated protein according to claim 18 or 19 substantially as set forth in <400>4.
21. An isolated protein comprising an amino acid sequence substantially as set forth in <400>7 or a derivative, homologue or mimetic thereof or a sequence having at least about 45% similarity to at least 10 contiguous amino acids in <400>7 or a derivative, homologue, analogue, chemical equivalent or mimetic of said protein.

22. An isolated protein according to claim 21 encoded by a nucleotide sequence substantially as set forth in one of <400>5 or <400>6 or a derivative, homologue or mimetic thereof or capable of hybridising to one of <400>5 or <400>6 under low stringency conditions or a derivative, homologue, analogue, chemical equivalent or mimetic of said protein.
23. An isolated protein according to claim 21 or 22 substantially as set forth in <400>7.
24. An isolated protein according to any one of claims 18-23 which protein is a homodimer.
25. An isolated protein according to any one of claims 18-23 which protein is a heterodimer.
26. A method of modulating expression of *ELF5* in a mammal, said method comprising contacting the *ELF5* gene with an effective amount of an agent for a time and under conditions sufficient to modulate expression of *ELF5*.
27. A method of modulating the functional activity of *ELF5* in a mammal, said method comprising administering to said mammal a modulating effective amount of an agent for a time and under conditions sufficient to increase or decrease the *ELF5* activity.
28. A method of modulating cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of an agent for a time and under conditions sufficient to modulate the expression of *ELF5* or sufficient to modulate the activity of *ELF5*.
29. A method of modulating cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of a protein according to any one of claims 18-25 or a derivative, homologue, analogue, chemical equivalent or

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mimetic thereof for a time and under conditions sufficient to modulate the functional activity of said cell.

30. A method of modulating cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of a nucleic acid molecule according to any one of claims 1-17 or a derivative, homologue, analogue, chemical equivalent or mimetic thereof for a time and under conditions sufficient to modulate the functional activity of said cell.

31. A method of modulating cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of an agent for a time and under conditions sufficient to modulate the expression of *ELF5* or sufficient to modulate the activity of *ELF5* wherein said *ELF5* expression product or *ELF5* modulates the activity of said cell.

32. A method according to any one of claims 28-31 wherein said functional activity is proliferation.

33. A method according to claim 32 wherein said cell is a neoplastic epithelial cell said modulation is down-regulation.

34. A method according to claim 33 wherein said neoplastic epithelial cell is of breast, prostate or lung origin.

35. A method for the treatment and/or prophylaxis of a condition characterised by the aberrant, unwanted or otherwise inappropriate cellular functional activity in a mammal of treating a mammal said method comprising administering to said mammal an effective amount of an agent for a time and under conditions sufficient to modulate the expression of *ELF5* wherein said modulation results in modulation of cellular functional activity.

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36. A method for the treatment and/or prophylaxis of a condition characterised by the aberrant, unwanted or otherwise inappropriate cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of an agent for a time and under conditions sufficient to modulate the activity of ELF5 wherein said modulation results in modulation of cellular functional activity.
37. A method for the treatment and/or prophylaxis of a condition characterised by the aberrant, unwanted or otherwise inappropriate cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of a protein according to any one of claims 18-25 or a derivative, homologue, analogue, chemical equivalent or mimetic thereof for a time and under conditions sufficient to modulate cellular functional activity.
38. A method for the treatment and/or prophylaxis of a condition characterised by the aberrant, unwanted or otherwise inappropriate cellular functional activity in a mammal said method comprising administering to said mammal an effective amount of a nucleic acid molecule according to any one of claims 1-17 or a derivative, homologue, analogue, chemical equivalent or mimetic thereof for a time and under conditions sufficient to modulate cellular functional activity.
39. A method of treating a mammal according to any one of claims 32-35 wherein said condition is an epithelial cell malignancy.
40. A method according to claim 39 wherein said malignant epithelial cell is of breast, prostate or lung origin.
41. A method according to claim 39 or 40 wherein said functional activity is proliferation and said modulation is down-regulation.

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42. Use of an agent capable of modulating the expression of *ELF5* or a derivative, homologue, analogue, chemical equivalent or mimetic thereof in the manufacture of a medicament for the modulation of cellular functional activity.
43. Use of an agent capable of modulating the activity of *ELF5* or a derivative, homologue, analogue, chemical equivalent or mimetic thereof in the manufacture of a medicament for the modulation of cellular functional activity.
44. Use of *ELF5* or *ELF5* or a derivative, homologue, analogue, chemical equivalent or mimetic thereof in the manufacture of a medicament for the modulation of cellular functional activity.
45. Use according to any one of claims 42-44 wherein said cell is a malignant epithelial cell.
46. Use according to claim 45 wherein said functional activity is proliferation and said modulation is down-regulation.
47. An agent for use in modulating *ELF5* activity or a derivative, homologue, analogue chemical equivalent or mimetic thereof wherein modulating said *ELF5* activity modulates cellular functional activity.
48. An agent for use in modulating *ELF5* expression or a derivative, homologue, analogue, chemical equivalent or mimetic thereof wherein modulating expression of said *ELF5* modulates cellular functional activity.
49. *ELF5* or *ELF5* or a derivative, homologue, analogue, chemical equivalent or mimetic thereof for use in modulating cellular functional activity.

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50. A pharmaceutical composition comprising *ELF5*, *ELF5* or an agent capable of modulating *ELF5* expression or *ELF5* activity or derivative, homologue, analogue, chemical equivalent or mimetic thereof together with one or more pharmaceutically acceptable carriers and/or diluents.
51. An isolated antibody directed to the protein according to any one of claims 18-25.
52. An isolated antibody directed to the nucleic acid molecule according to any one of claims 1-17.
53. The antibody according to claim 51 or 52 wherein said antibody is a monoclonal antibody.
54. The antibody according to claim 51 or 52 wherein said antibody is a polyclonal antibody.
55. A method of diagnosing or monitoring a mammalian disease condition, which disease condition is characterised by aberrant cellular functional activity, said method comprising screening for *ELF5* or *ELF5* in a biological sample isolated from said mammal.
56. A method for detecting an agent capable of modulating the function of *ELF5* or its functional equivalent or derivative thereof said method comprising contacting a cell or extract thereof containing said *ELF5* or its functional equivalent or derivative with a putative agent and detecting an altered expression phenotype associated with said *ELF5* or its functional equivalent or derivative.
57. A method for detecting an agent capable of modulating the function of *ELF5* or its functional equivalent or derivative thereof said method comprising contacting an epithelial cell containing said *ELF5* or its functional equivalent or derivative with a putative agent and detecting an altered proliferation rate.

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58. A method for detecting an agent capable of binding or otherwise associating with an ELF5 binding site or functional equivalent or derivative thereof said method comprising contacting a cell containing said ELF5 binding site or functional equivalent or derivative thereof with a putative agent and detecting an altered expression phenotype associated with modulation of the function of ELF5 or its functional equivalent or derivative.

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